

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 82-21

WASTE DISCHARGE REQUIREMENTS FOR:

BEAULIEU VINEYARD WINERY, HEUBLEIN, INC.
RUTHERFORD, NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. Beaulieu Vineyard Winery, located in Rutherford, Napa County, submitted a report of waste discharge on February 18, 1982. Beaulieu Vineyard Winery is owned by Heublein, Inc.
2. Beaulieu Vineyard Winery, Heublein, Inc. (hereinafter discharger) presently discharges the following wastes:
 - a. Waste No. 1 consists of sanitary sewage with an estimated flow of 1700 gallons per day from 95 employees. The waste is discharged into a septic tank and a conventional subsurface disposal field approved by Napa County Health Department.
 - b. Waste No. 2 consists of industrial waste only, from the production of wine including crushing fermenting, aging, bottling and storage facilities. The average flow is approximately 22,000 gallons per day (gpd) during the grape-crushing season (August through October) and about 11,000 gpd during the remainder of the year. Winery wastewater is presently conveyed by a combination of gravity and pressure sewers to a system of four evaporation/percolation ponds having a combined total area of 2.0 acres and a total volume of 2.1 million gallons.
 - c. Waste No. 3 consists of organic solids, primarily pomace and stems, screened from the process wastewater. After proposed improvements in the process wastewater facilities it is estimated that 1091 cubic yards of this material will be generated annually. This waste is currently sold for nursery mulch and for animal feed. Screened solids that are not sold will be disposed of by incorporation into the soil on vineyard areas on the discharger's property.
3. The discharger proposes to upgrade the process wastewater facilities with the following improvements:
 - a) The sewer system conveying industrial waste to the ponds will be replaced with a new pressure sewer.

- b) The existing pump station will be replaced with a new pump station containing two sets of duplex sewage pumps, one set to pump over the screens and one to convey the screened wastewater to the ponds.
 - c) Screens will be installed at all trench and floor drains and a motorized rotary drum screen will be installed to provide additional solids removal from the waste stream prior to its conveyance to aerated ponds.
 - d) Equipment for maintaining pH greater than 6.5 in the wastewater as conveyed to the pond will be installed at the new pump station. Provision will be made for possible future addition of pH reduction controls.
 - e) A new treatment lagoon system will be constructed, consisting of two mechanically-aerated facultative ponds and one storage reservoir. The system will be sized for storage of maximum projected wastewater flow plus the maximum rainfall expected on a 10 year recurrence interval, with no discharge during the period from October through March. Total useable volume of the pond system will be approximately 7.76 million gallons with 2 foot minimum freeboard.
 - f) Disposal of the treated process wastewaters will be accomplished by spray irrigation of alfalfa or pasture grass on an 7.2 acre dedicated disposal area. This area is shown on Attachment A, which is hereby made a part of this Order.
 - g) Flow measuring devices will be provided to measure flows from the pretreatment area, and irrigation flows from the storage reservoir.
 - h) The above modifications will be sized to accomodate a maximum peak flow of 85,000 gallons per day and a maximum average flow of 35,000 gallons per day. These flows are predicted on the basis of an ultimate crush capacity of 8500 tons per year.
4. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) in April 1975. The Basin Plan contains water quality objectives for the Napa Valley area.
5. The beneficial uses of the Napa Valley ground waters as set forth in the Basin Plan include:
- a. Domestic water supply
 - b. Agricultural water supply
6. The beneficial uses of the Napa River as set forth in the Basin Plan include:

- a. Domestic water supply
 - b. Water contact recreation
 - c. Agricultural water supply for stock watering, irrigation and frost protection
 - d. Fish migration and habitat
 - e. Esthetic enjoyment
7. The county of Napa determined on the basis of an Initial Study that the project, as described, will have no substantial adverse effect on the environment, and therefore adopted a Negative Declaration regarding this project dated September 2, 1981 in accordance with the California Environmental Quality Act (Public Resources Code Section 2100 et. seq.).
 8. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
 9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Beaulieu Vineyard Winery, Heublein, Inc., in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Specifications

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. Waste 1 shall be kept below the ground surface at all times.
3. The disposal of Wastes 1 or 2 shall not cause degradation of ground water suitable for domestic use or cause an increase in any quality parameter that would make ground water unsuitable for irrigation use.
4. Waste 2 as contained in the aeration and holding ponds shall meet the following limits at all times:

Dissolved Oxygen	1.0 mg/l minimum
Dissolved Sulfide	0.1 mg/l maximum
pH	6.0 minimum
	9.0 maximum
5. The aeration and holding ponds for Waste 2 shall be protected from erosion, washout or flooding having a predicted frequency of once in 100 years.

6. The public shall be effectively excluded from the waste treatment and disposal area.
7. A minimum of two feet of freeboard shall be maintained in the ponds at all times.
8. Wastewater ponding which could provide a breeding area for mosquitoes shall be prevented.
9. Waste 3 shall be disposed of on the discharger's property or at a landfill site approved for such use by the Regional Board. On-site application shall be limited to agricultural fields.
10. If waste 3 is disposed of on a vineyard area it shall be spread as thinly as possible and incorporated into the soil before runoff from rainfall occurs or within seven days after application.

B. Prohibitions

1. Neither waste 1, 2, or 3 shall be allowed to escape from the dischargers property into waters of the State via surface flow, surfacing after percolation, or airborne spray.
2. Waste 1 shall not be discharged into the aeration pond system.
3. The inclusion of sanitary waste in waste 3 is prohibited.
4. Waste 2 shall not exceed 35,000 gallons per day (30-day average) or 21,000 gallons per day (annual average).
5. Waste 2 shall not be applied to the disposal area from October 1 through March 31 unless specific prior authorization is obtained from the Executive Officer.
6. Wastewater shall not be applied to any land outside the dedicated disposal area as shown in Attachment A without the written authorization of the Executive Officer.

C. Provisions

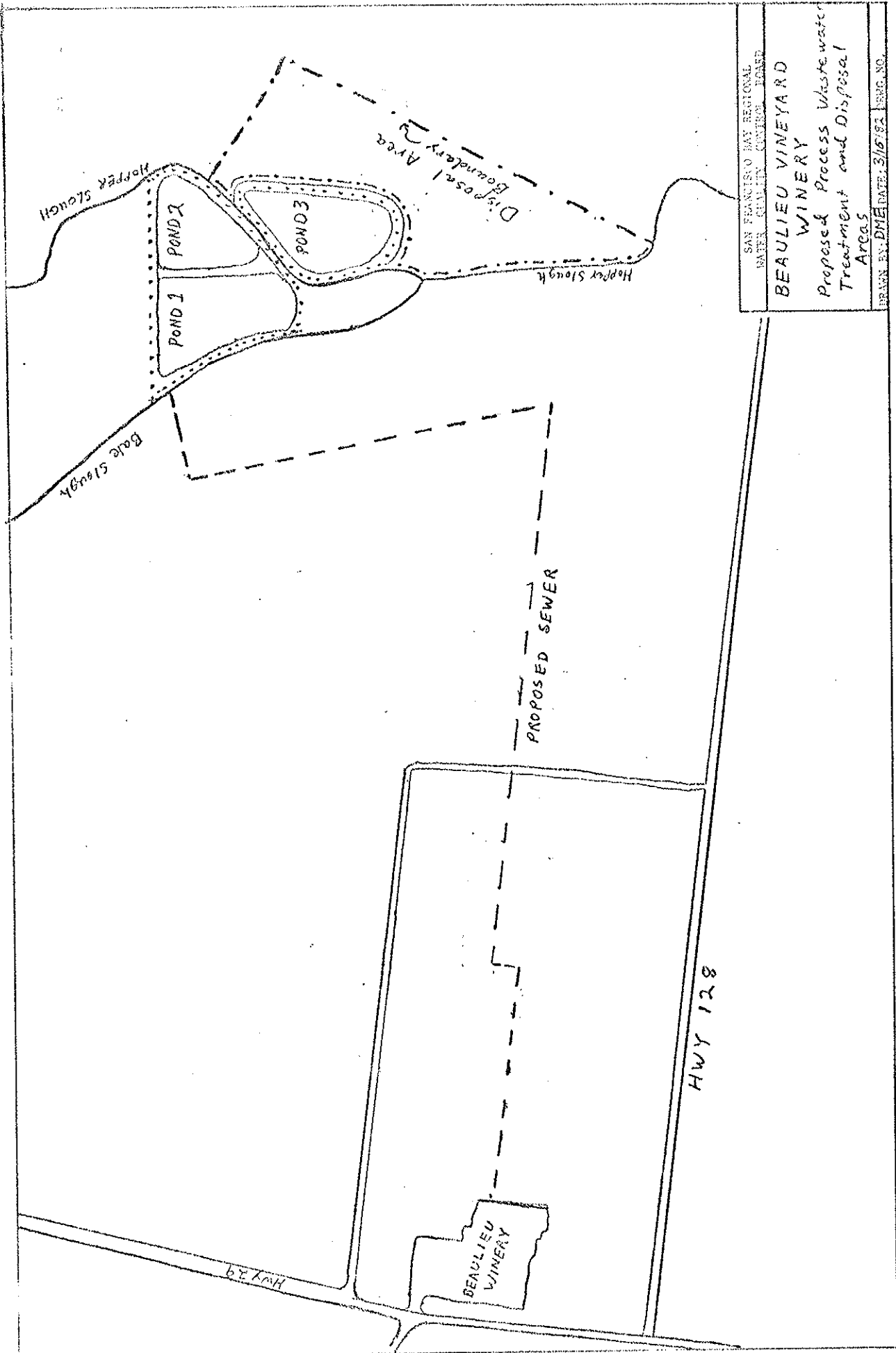
1. The discharger shall submit a technical report describing the facilities and proposed operational procedures for wastewater disposal by land application at least 30 days prior to the start of operation of the proposed new system. This report shall include a detailed map of the disposal area. A revised map shall be submitted and approved by the Executive Officer prior to any future changes in the disposal area.
2. The wastewater treatment pond-land disposal system shall be operated so as to achieve maximum freeboard in the ponds between September 15 and October 1 of each year.

3. By October 1 of each year the discharger shall submit a report to the Board containing the depth of freeboard in each pond, and an assessment of the ability to maintain the minimum freeboard with anticipated rains and waste inflow.
4. In reviewing compliance with Specification A.7., Prohibitions B.1. and B.5. of this Order, the Board will take special note of the difficulties encountered in achieving compliance during entire wet season having a rainfall recurrence interval greater than once in ten years.
5. The discharger shall comply with the Self-Monitoring Program as ordered by the Executive Officer.
6. All equipment including pumps, piping and valves, storage ponds, etc. which may at any time contain wastes shall be adequately and clearly identified with warning signs and discharger shall make all necessary provisions, in addition, to inform the public that the liquid contained therein is wastewater and is unfit for human consumption.
7. The discharger shall maintain in good working order and operate, as efficiently as possible, any facility or control system installed to achieve compliance with the waste discharge requirements.
8. The discharger shall file with this Board a report of waste discharge at least 120 days of any material change or proposed change in the character, treatment, or volume of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, or ownership of the property.
9. The discharger shall permit the Board or its authorized representatives in accordance with California Water Code Section 13267(c):
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
 - b. Access to copy any records required to be kept under terms and conditions of this Order.
 - c. Inspection of any monitoring equipment or method required by this Order.
 - d. Sampling of any stored or disposed wastewater.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on April 21, 1982.

Attachment:
A - Map

FRED H. DIERKER
Executive Officer



SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD	DRAWN BY: DME DATE: 3/16/82 PROJ. NO.
BEAULIEU VINEYARD WINERY	
Proposed Process Wastewater Treatment and Disposal Areas	

ATTACHMENT A. MAP